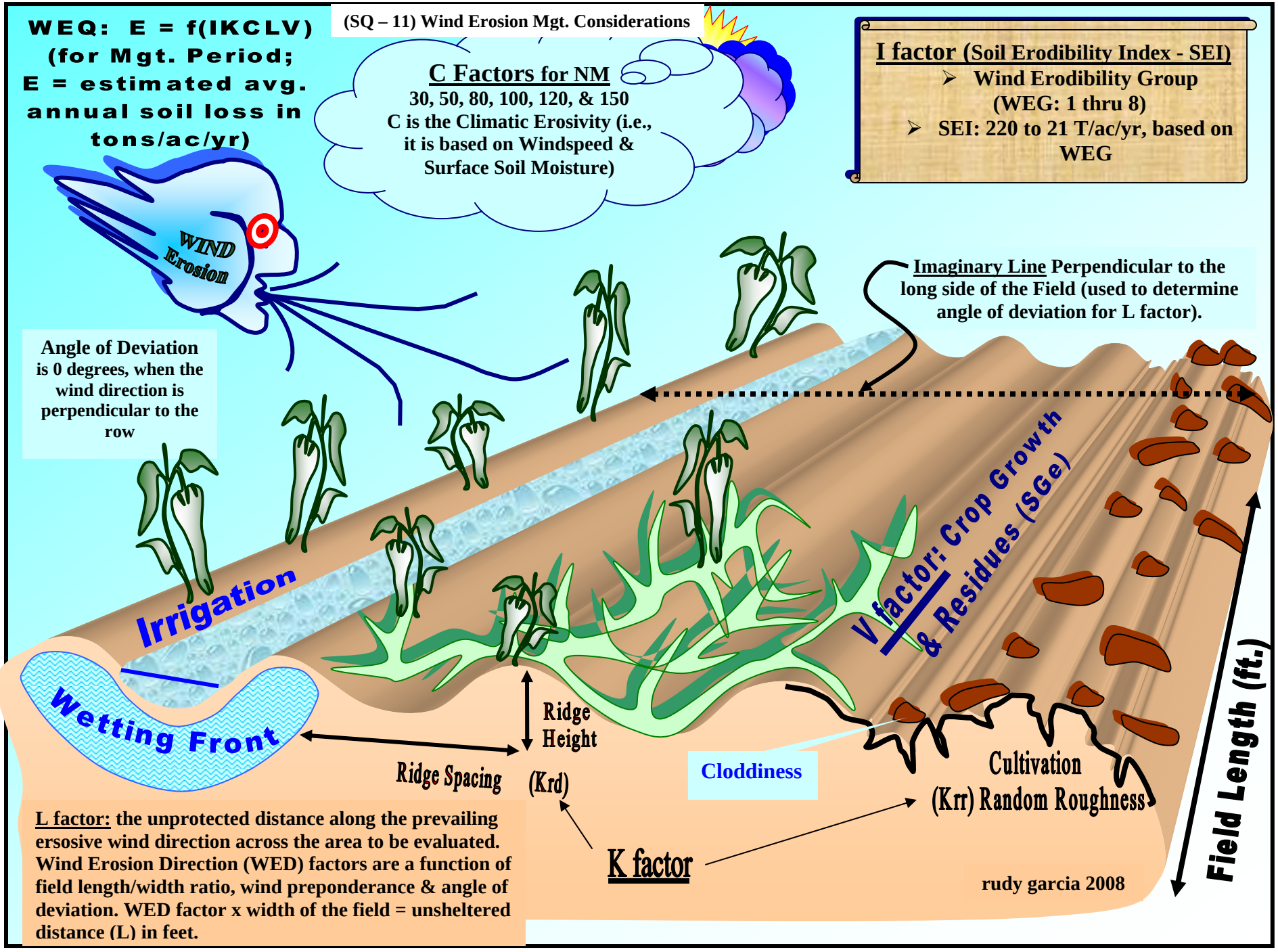
WEQ: E = f(IKCLV)
(for Mgt. Period;
E = estimated avg. annual soil loss in tons/ac/yr)
(SQ – 11) Wind Erosion Mgt. Considerations
C Factors for NM
30, 50, 80, 100, 120, & 150
C is the Climatic Erosivity (i.e., it is based on Windspeed & Surface Soil Moisture)
I factor (Soil Erodibility Index - SEI)
Wind Erodibility Group (WEG: 1 thru 8)
SEI: 220 to 21 T/ac/yr, based on WEG
WIND Erosion
Imaginary Line Perpendicular to the long side of the Field (used to determine angle of deviation for L factor).
Angle of Deviation is 0 degrees, when the wind direction is perpendicular to the row
Irrigation
Wetting Front
V factor: Crop Growth & Residues (SGe)
Ridge Height
Ridge Spacing
(Krd)
Cloddiness
Cultivation
(Krr) Random Roughness
K factor
Field Length (ft.)
L factor: the unprotected distance along the prevailing ersosive wind direction across the area to be evaluated. Wind Erosion Direction (WED) factors are a function of field length/width ratio, wind preponderance & angle of deviation. WED factor x width of the field = unsheltered distance (L) in feet.
rudy garcia 2008